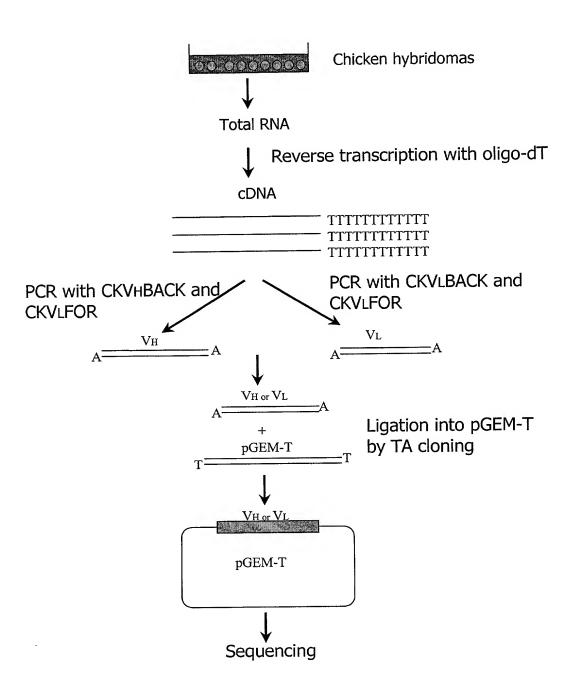
Title: Recombinant SCFV Antibodies Specific To Eimeria SPP.Responsible For Coccidiosis

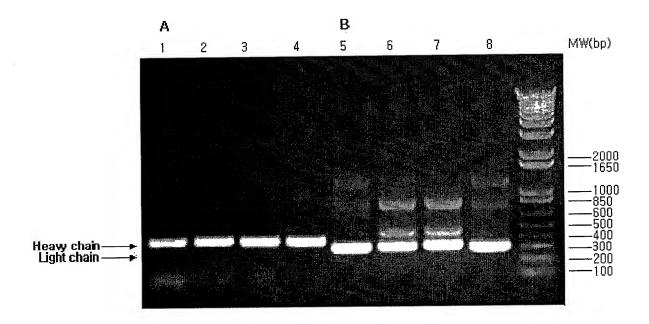
Inventor: KIM, et al. Atty. Ref. No.: 5294-000006

Fig. 1



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Fig. 2



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### Fig. 3a

GERMLINE	GCCGTGACGTTGGACGAGTCCGGGGGGCGCCTCCAGACGCCCGGAAGAGCCCKVHBACK	50
2-1HC 5D11HC 13C8HC 8C3HC		50 50 50 50
GERML I NE	GCTCAGCCTCGTCTGCAAGGCCTCCGGGTTCACCTTCAGCAGTTACAACA CDR1	100
2-1HC 5D11HC 13C8HC 8C3HC		100 100 100 100
GERMLINE 2-1HC 5D11HC 13C8HC 8C3HC	TGGGTTGGGTGCGACAGGCCCCGGCAAGGGGCTGGAGTTCGTCGCTGGT           . ATG.	150 150 150 150 150
GERMLINE	ATTGACAACACTGGTAGATACACAGGCTACGGGTCGGCGGTGAAGGG CDR2	197
2-1HC 5D11HC 13C8HC 8C3HC	CDR2  AG CT GTA C. C	197 197 200 197
GERMLINE 2-1HC 5D11HC 13C8HC 8C3HC	CCGTGCCACCATCTCGAGGGACAACGGGCAGAGCACAGTGAGGCTGCAGC	247 247 247 250 247
GERMLINE 2-1HC 5D11HC 13C8HC 8C3HC	VH1 gene           TGAACAACCTCAGGGCTGAGGACACCGGCACCTACTACTGCGCCAAAGCT	297 297 297 297 297
GERMLINE	D segment JH gene GCTGGTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	341
2-1HC 5D11HC 13C8HC 8C3HC	CDR3 . G C. TATTGTGCTGGTTG G GA. T TA. GGTAGTTGGAGAGGTT. A GA T. AA. AGTGGTTACCCTGA C. GA. T C. GTGTGGCTATGATTGGTGTT A. A.	335 338 338 341
GERML I NE	ATGGGGCCACGGGACCGAAGTCATCGTCTCCTCC 375	
2-1HC 5D11HC 13C8HC 8C3HC	CKVHFOR	

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# Fig. 3b

GERML I NE	GCGCTGACTCAGCCGTCCTCGGTGTCAGCGAACCCGGGAGGAACCGTCAA CKVLBACK	50	
2-1LC		50	
5D11LC 13C8LC	AG.	50 50	
8C3LC		50	
GERML INE	GATCACCTGCTCCGGGGATAGCAGCTACTATGGCT	85	
2-1LC	CDR1G.G <i>GCTGGAAGTTACTAT</i>	100	
5D11LC	A	85	
13C8LC 8C3LC		85 85	
00020			
GERML INE	GGTACCAGCAGAAGGCACCTGGCAGTGCCCCTGTCACTGTGATCTATGAC	135	
2-1LC		150	
5D11LC 13C8LC	TTT	135 135	
8C3LC	TATCT	135	
GERML I NE	AACACCAACAGACCCTCGAACATCCCTTCACGATTCTCCGGTTCCAAATC CDR2	185	
2-1LC	CDR2CT	200	
5D11LC	GA G G G	185	
13C8LC 8C3LC	A G	185 185	
GERML INE	CGGCTCCACAGCCACATTAACCATCACTGGGGTCCGAGCCGACGACAATG	235	
2-1LC 5D11LC		250 235	
13C8LC		235	
8C3LC	AA G G. G.	235	
	Vλ 1 gene		
GERML I NE	CTGTCTATTACTGTGCGAGTACAGACAGCAGCAGTACTGCA	GGTATA	282
0.11.0	CDR3		00.4
2-1LC 5D11LC	G CTTC TTA. GT AT		294 282
13C8LC 8C3LC	G. A. G	TGATTATGTT	294
OUSLU		.,	285
A=D.	J\lambda gene		
GERML I NE	TTTGGGGCCGGGACAACCCTGACCGTCCTA 312		
2-1LC	CKVLFOR C 324		
6D12LC			
5D11LC 13C8LC			
8C3LC	315		

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# Fig. 3c

Germline	GCCGTGACGTTGGACGAGTCCGGGGCGCCTCCAGACGCCCGGAAGAGCGCTCAGCCTCGTCTGCAAGGCCTCCGGGTTCACCTTCAGCAGTTACAACATGGGTTGGGTGGACAGGG 120 Deiner V.R	
6D-12-G10	· "一个,我们是我们的,我们也有什么,我们们的,我们们的,我们们的,我们们们的,我们们们的,我们们的,我们们的,我	
Germline	CCCGGCAAGGGGCTGGAGTTTGACAACACTGGTAGATACACAGGCTACGGGTGAAGGGGCCGTGCCATGCCATCTCGAGGGACAACGGGCAAGGGCACAGTGAGG	
6D-12-G10	CDV-13-G10 ************************************	
Germline	CTGCAGCTGAAACCTCAGGGCTGACGACCTACTACTGCGCCAAAGCTGCTGATNINNINNINNINNINNINNINNINNINNINNINNINNIN	
6D-12-G10	CD-12-G10 ************************************	
Germline 6D-12-G10	Germline ACCGAAGTCATCGTCCTCC 381    Primer V <sub>i</sub> F   Primer V <sub>i</sub> F	F

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Fig. 3d

Germline	GCGCTGACTCAGCCGTCCTCGGTGTCAGCGAACCCGGGAGGAACCGTCAAGATCACCTGCTCCCGGGGATAGCAGCTACTATGGCTGGTACCAGCAGAAGGCACTGCCCTGTC 105
	Primer V <sub>1</sub> B CDR1
6D-12-G10	6D-12-G10 ************************************
Germline	ACTGTGATCTATGACAACAACAACAGACCTCGAACATCCCTTCACGATTCTCCGGTTCCAAATCCGGCTCCACAGCCACATTAACCATCACTGGGGTCCGAGCCGACGACGACGACGTCTCTC 225
6D-12-G10	6D-12-G10 ************************************
Germline 6D-12-G10	VAl gene

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### Fig. 4a

Germline	AVTLDESGGGLQTPGRALSLVCKASGFTFS <u>SYNMG</u> WVRQAPGKGLEFVA <u>G</u> CDR1	50
2-1HC 5D11 HC 8C3 HC 13C8 HC	G. HG.M. T. W. G. D. D. I. Y. GG. SIGG. I.H. T. Y. GG. G. LD. A.	50 50 50 50
Germline	IDNT-GRYTGYGSAVKGRAT I SRDNGQSTVRLQLNNLRAEDTGTYYCAKA CDR2	99
2-1 HC 5D11 HC 8C3 HC 13C8 HC	. S T Y. AP	98 99 99 100
Germline	AGXXXXXXTAGS I DAWGHGTEV I VSS 124 CDR3	
2-1 HC 5D11 HC 8C3 HC 13C8 HC	-GGAYCAGCG. D.       122        SYGSWRGST. D.       123         SRCGYDWCSDN.       124         VNSGYPD. AD.       123	

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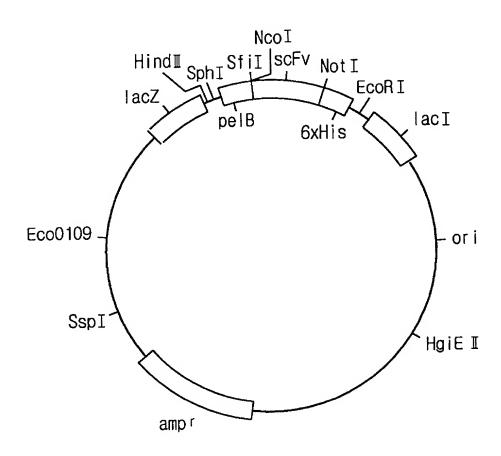
# Fig. 4b

Germline	ALTQPSSVSANPGGTVK   TCSGDSSYYGWYQQKAPGSAPVTV   Y	44
	CDR1	
2-1 LC 5D11 LC 8C3 LC 13C8 LC	EGG. AGSYYAA	49 44 44 44
Germline	<u>DNTNRPSNIPS</u> RFSGSKSGSTATLTITGVRADDEAVYYC <u>ASTDSSST</u> CDR2 CDR3	91
2-1 LC 5D11 LC 8C3 LC 13C8 LC	L. N. QVE. G.F. YVDK. D. D. G. Q.E. GNA. NNTY Y. NK. D. P. N. E. F. GAWE. PI W-NK. D. E. GNA. NTADSD	94 91 91 94
Germline	-AGIFGAGTTLTVL 104	
2-1 LC 5D11 LC 8C3 LC 13C8 LC	L. 106 -DP. 104 YV. 105 YV. 108	

Fig. 5

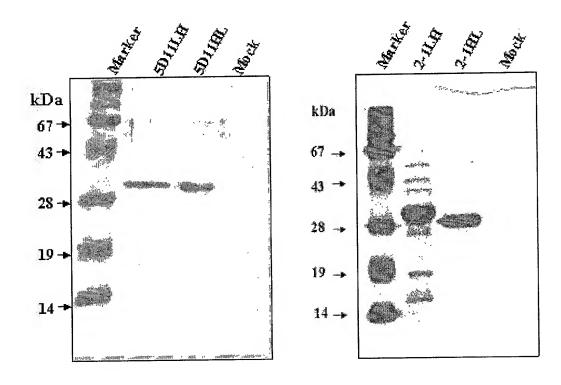
Inventor: KIM, et al. Atty. Ref. No.: 5294-00006

Fig. 6



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Fig. 7



Title: Recombinant SCFV Antibodies Specific To Eimeria SPP.Responsible For Coccidiosis

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Fig. 8

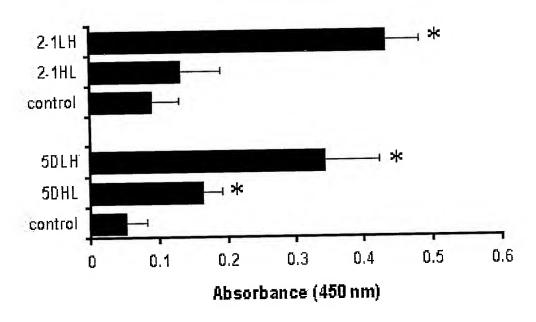
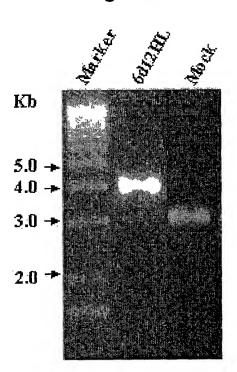
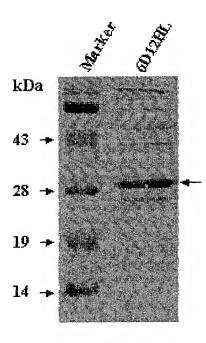


Fig. 9a



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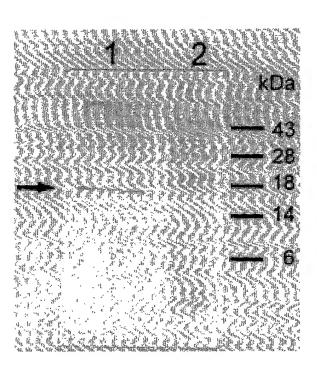
Fig. 9b



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Fig. 10



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Fig. 11

